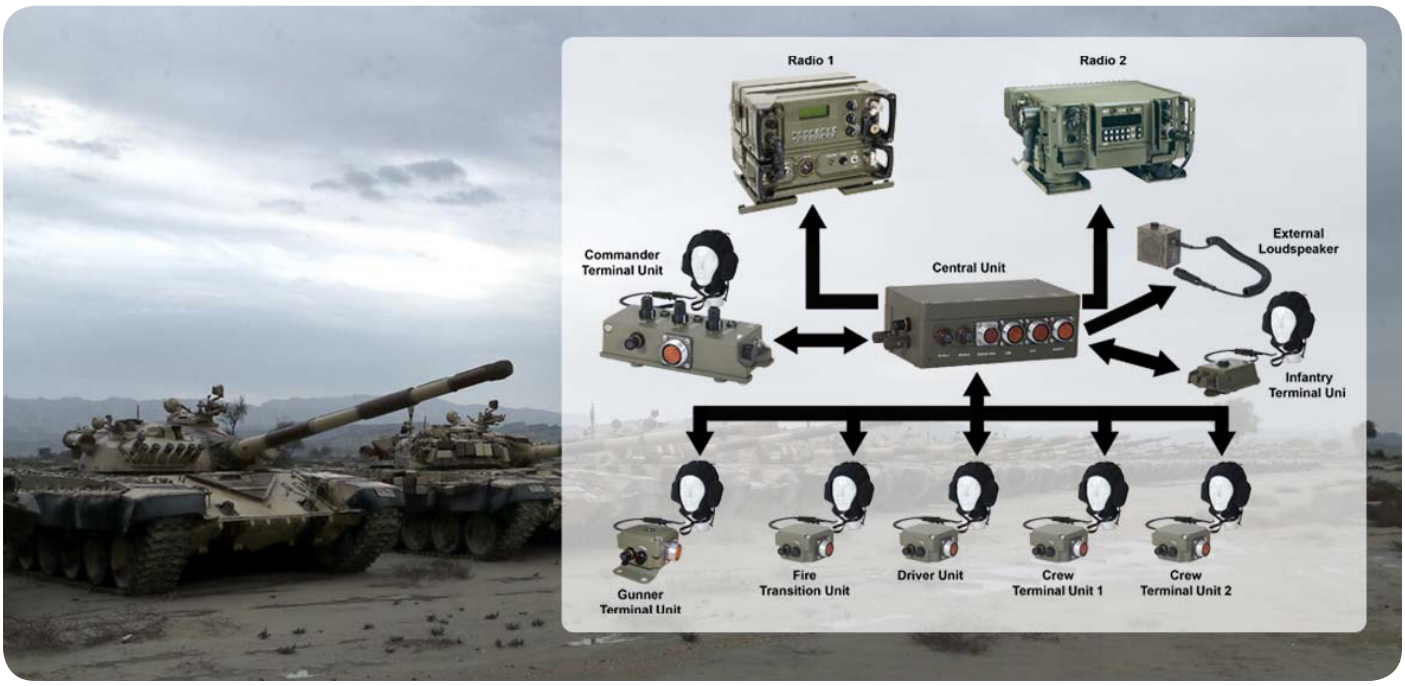
Iran
Communications
Industries



VIS-320/E

Vehicular Intercommunication System

VIS-320/E armored Vehicular Intercommunication System is considered to establish voice communication as the main function of the system between the commander and crews of an armored vehicle/tank. In addition, by connecting this system to the two radios and Infantry Box (IB), external communication can be established for commander and the crews.
VIS-320/E includes Central Unit (CU-320), Commander Terminal Unit (CTU-320), Crew Member Terminal Unit (CMTU-320), Gunner Terminal Unit (GTU-320), Infantry Terminal Unit (ITU-320), and External Loudspeaker (EL-320). Access of the crews and infantry to the radio 1 is gained by the commander via the Commander Terminal Unit. In this case, Crew Member/Infantry Terminal Units are under control of the Commander Terminal Unit completely. Access of the gunner to the radio 1 is gained via the Gunner/Commander Terminal Unit. Access of the crews to intercommunication is selected by available chest set of them. In all intercommunication and external communication, commander is in high priority and can gain its special access.

Iran
Communications
Industries

Capabilities

- ✓ Operable in various armored vehicles
- ✓ Connecting to 6 crews and one infantry
- ✓ Connecting to two radios
- ✓ Connecting to the vehicle's sensors and audio/visual alarms of the activated sensor
- ✓ Connecting to external loudspeaker
- ✓ Establishing internal communication as the intercommunication and holding conference between the crews
- ✓ Capability of gaining access to the R1 for the crews due to the commander
- ✓ Capability of gaining access to the R1 for the gunner in case that the commander is not present
- ✓ Capability of disconnecting the driver from the R1
- ✓ Controlling all of the communication statuses via the commander box
- ✓ Tactical capability, easy operation, and quick setting up
- ✓ Displaying the communication statuses
- ✓ Programmable externally
- ✓ Capability of turning ON/OFF the system via the Commander Terminal Unit
- ✓ Capability of filtering the various noises created due to the vehicle
- ✓ Proper quality of the voice for all statuses of the vehicle
- ✓ Proper dimension for installing inside various vehicles
- ✓ Easy troubleshooting

Iran
Communications
Industries

General specifications

System mission.....voice transmission/receiving
Operation type.....tactical military operation
Communication channel .....multi-wire/pair wire cable (for infantry)
Network capacity.....5 crews, 1 commander, and 1 infantry
Physical layers between the nodes.....analog voice
Display type.....LED
Crew/infantry connector type.....19-pin socket of the crew/commander and binding post for infantry
Operating voltage.....18 ~32 VDC externally
Conference type.....general conference
Alarm/display capability in the.....laser/chemical attack, status of the gunner, driver, and Commander Terminal Unit infantry, RX Radio1 , RX Radio2
Out of network communication.....radio communication (R1 and R2) via the two VHF/LB radio sets
Output audio level.....>3.5Vrms
Microphone input.....about 1mV p-p
Command control.....controlling communication between the crews and with the R1 and R2
Connection alarm of the Infantry Terminal Unit.....audio alarm in commander helmet and LED indication on the Commander Terminal Unit
Controlling the received audio level.....by volume control as analog for each crew and the commander
Audio output.....one output for connecting external loudspeaker

Special specifications

Capability of holding conference and intercommunication.....by the commander
Capability of radio transmission/receiving in status of connecting to the radio 1.....by the commander and crews
Capability of radio transmission/receiving in status of connecting to the radio 2.....only by the commander
Controlling and disconnecting the crew from the radio.....by the commander
Side tone capability.....all of the crews individually
Capability of differentiating between the crew and radio communication.....in transmitting and receiving status from the radio
Supplying the crew.....central supply (from the Central Unit)
Supply of the Central Unit.....external supply (20-32 VDC from tank)
Capability of turning ON/OFF.....via a key in the Commander Terminal Unit

Environmental and Mechanical Specifications

Operating temperature.....-33°C ~ +65°C according to the MIL-STD-810 standard
Storage temperature.....-40°C ~ +70°C according to the MIL-STD-810 standard
Humidity.....95% according to the MIL-STD-810 standard
Environmental test.....according to the MIL-STD-810 standard
EMC/EMI test.....according to the MIL-STD-460 standard